ICCAI'22 PROGRAM

"Impactful AI in Critical Care"

SCAI @ 20 > COVID-19

All times are Eastern Daylight Time Zone (EDT)

Day 1	Wednesday, September 7, 2022
8:00-8:10	**Introduction and Welcome** (Gilles Clermont, SCAI President)
8:10–8:25	**Brief Perspective Keynote** (P0)- **Celebrating 20 years of SCAI** (E. Neugebauer -Founding President of SCAI)
8:30-9:45	**Thematic session I: Developing and Trialing AI in Critical Care** Session Chair(s): I. Wong (Duke University) P1. **A road traveled: In silico clinical trials** (Leo A. Celi, MIT) P2. **Testing Predictive AI** (Gary Weissman, University of Pennsylvania) P3. **Governing Predictive AI Implementation (at scale)** (Nicoleta Economou-Zavlanos, Duke University) **Panel Discussion**
9:45-10:00	**Break**
10:00-11:15	**Thematic session II: Impactful AI in Critical Care** Session Chair(s): Vitaly Herasevich (Mayo Clinic) P1. **Complex thinking for common ICU problem – utilization of AI for analysis of the electrolyte replacement decision-making process** (Krzysztof "Kris" Laudanski, University of Pennsylvania) P2. **Is computer vision a solution for AI-enabled automatization at bedside?** (Vitaly Herasevich, Mayo Clinic) P3. **Prospective evaluation of a deployed, machine learning-based early warning system for sepsis** (Roy Adams, John Hopkins University) **Panel Discussion**
11:15-11:30	**Break**
11:30-12:30	**Thematic Session III: Manuscript Production (SCAI @ 20-22)** Session Chair(s): Beth Lusczek (University of Minnesota) /G. Clermont (University of Pittsburgh) **Pre-structure discussion to the extent possible** (S. Zenker/G. Clermont) **Data-driven vs. Mechanistic Modeling in Acute Illness** (Y. Vodovotz, University of Pittsburgh) **Federated vs Centralized Learning** (C. Hinske, University of Augsburg) **Patient privacy vs. Public Interest** (S. Zenker, University of Bonn) **Panel Discussion**
12:30-13:00	**SCAI Business Meeting**

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Day 2	Thursday, September 8, 2022
8:00-8:20	**Keynote:** Eric Elster (Dean, Uniformed Services University of the Health Sciences, Bethesda, MD) **"AI for Biomarker Discovery in Combat Trauma"**
8:20-9:45	**Thematic Session IV: From Development to Implementation: Learning across Environments** Session Chair(s): C. Hinske (University of Augsburg) and S. Zenker (University of Bonn), Germany P1. **Deidentification and Reidentification of Risk Quantification** (Fabian Prasser, Berlin Institute of Health @ Charité) P2. **Homomorphic Encryption Techniques** (Andreas Trügler, KNOW Center Graz, Austria) P3. **Federated learning for healthcare** (Zaineb Chelly, University of Versailles, France) **Panel discussion**
9:45-10:00	**Break**
10:00-11:15	**Thematic session V: Implementing the AI workforce in Critical Care** Session Chair(s): Parisa Rashidi (University of Florida) P1. **The nephrologist and AI in Critical Care** (Shina Menon, Seattle Children's Hospital) P2. **The Digital Twin in Intensive Care** (Robert Stevens, Johns Hopkins University) P3. **AI for Healthcare is not Ready for Deployment** (Leo A. Celi, MIT) **Panel discussion**
11:15-11:30	**Break**
11:30-13:00	**Thematic session VI: Clinical Validation of AI** Session Chair(s): Sean Manion (CSO, Equidium Health) P1. **TBD** (Harsh W. Sharma, Chief Data & AI for Cloud Services at Microsoft) P2. **TBD** (Tamiko Eto, Compliance, Technology Risk, Privacy, and IRB Manager, Kaiser Permanente, and CITI Program Training on AI & Clinical Research P3. **TBD** (Amicia Elliott, Colossal Biosciences) **Panel discussion**

Day 3	Friday, September 9, 2022
8:00-10:00	**Future of SCAI**: Presentations from submitted abstracts